# QC ABSTRACT

**NAME OF WORK:** Package No.01 (Package consists of 3 works of ward number 09)

| SL NO | Item Of Work | Name of Test | Frequency of Test/Quantity | Executed Quantity | Number of Tests Required | Number of Tests Conducted |
|---|---|---|---|---|---|---|
| | | **Materials** | | | | |
| 1 | Cement | Fineness by dry sieving | One Test | | 1 | 1 |
| | | Finess by Air permeablity method | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Standard Consistency | One Test | | 1 | 1 |
| | | Initial Setting time | One Test | | 1 | 1 |
| | | Final Setting time | One Test | | 1 | 1 |
| | | Soundness (Le Chatelier's Method) | One Test | | 1 | 1 |
| | | Compressive Strength | One Test | | 1 | 1 |
| 2 | Coarse aggregate(40 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| 3 | Coarse aggregate(20 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Aggregate crushing Value | One Test | | 1 | 1 |
| | | Aggregate Impact Value | One Test | | 1 | 1 |
| 4 | Fine aggregate | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Material finer than 75 micron | One Test | | 1 | 1 |
| 5 | Steel | Bend test | One Test | | 1 | 1 |
| | | Tensile Test | One Test | | 1 | 1 |
| | | Yield Test | One Test | | 1 | 1 |
| | | ReBend test | One Test | | 1 | 1 |
| 6 | KERB | Core Compressive strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive strength | One Test | | 1 | 1 |
| 7 | Precast (100mm) | Core Compressive Strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive Strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive Strength | One Test | | 1 | 1 |
| 8 | Precast (250mm) | Core Compressive Strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive Strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive Strength | One Test | | 1 | 1 |

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| | | | | | | |
|---|---|---|---|---|---|---|
| 9 | Precast (100mm) | Core Compressive Strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive Strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive Strength | One Test | | 1 | 1 |
| 10 | PCC(M15) | Compressive Strength(7days and 28days) | 3 set /16-30 cum | 19.68 | 6 | 6 |
| 11 | RCC(M20) | Compressive Strength(7days and 28days) | 14 set /501-550 cum | 502.44 | 28 | 28 |
| 12 | Cement Concrete Pavemet (M30) | Compressive Strength(7days and 28days) | 5 set /31-100 cum | 80.54 | 10 | 10 |
| 13 | GSB | SIEVE ANALYSIS | One Test | | 1 | 1 |
| 14 | WMM | Sieve Analysis | Two Test | | 2 | 2 |
| | | Impact Value | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| 15 | DBM | SIEVE ANALYSIS | Two Test | | 2 | 2 |
| | | STRIPPING VALUE | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | IMPACT VALUE | One Test | | 1 | 1 |
| | | Specific gravity | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Marshal Stability | One Test | | 1 | 1 |
| | | Marshal flow | One Test | | 1 | 1 |
| | | Percent air Voids | One Test | | 1 | 1 |
| | | Percent Voids in mineral Aggregate | One Test | | 1 | 1 |
| | | Percent Voids filled with Bitumen | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Gradation | One Test | | 1 | 1 |
| 16 | BC | SIEVE ANALYSIS | Two Test | | 2 | 2 |
| | | STRIPPING VALUE | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | IMPACT VALUE | One Test | | 1 | 1 |
| | | Specific gravity | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Marshal Stability | One Test | | 1 | 1 |
| | | Marshal flow | One Test | | 1 | 1 |
| | | Percent air Voids | One Test | | 1 | 1 |
| | | Percent Voids in mineral | One Test | | 1 | 1 |
| | | Percent Voids filled with Bitumen | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Gradation | One Test | | 1 | 1 |
| 17 | BITUMEN | Ductility | One Test | | 1 | 1 |
| | | Softening Point | One Test | | 1 | 1 |
| | | Penetration | One Test | | 1 | 1 |
| | | Flash Point | One Test | | 1 | 1 |
| | | Fire Point | One Test | | 1 | 1 |
| 18 | TACK COAT | Rate of spread | One Test | | 1 | 1 |

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** **Date: 09-04-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-04-2021 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 07-04-2021 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 1.05 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 293.5 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.14 | – |
| 4 | Standard Consistency (%) | 28.5% | Not specified |
| 5 | Initial Setting time | 135 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 255 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 1.5mm | Not more than 10 mm |

* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** **Date: 05-05-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-04-2021 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 07-04-2021 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

**Compressive Strength**

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | 3 Days | 28.5N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 39.0N/mm$^2$ | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 58.5N/mm$^2$ | Not less than 53 N/mm$^2$ |

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** **Date: 09-04-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-04-2021 |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 06-04-2021 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken : 15000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 238 | 238 | 1.6 | 98.4 | 90-100 |
| 3 | 20 mm | 7448 | 7686 | 51.2 | 48.8 | 30-70 |
| 4 | 10 mm | 5488 | 13174 | 87.8 | 12.2 | 10-35 |
| 5 | 4.75 mm | 1495 | 14669 | 97.8 | 2.2 | 0-5 |
| 6 | Pan | 331 | 15000 | 100.0 | 0 | --- |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2021-06-28-55** **Date: 09-04-2021**

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 11.5 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 12.9 | |
| 3 | Specific Gravity | 2.67 | – |
| 4 | Bulk Density(Loose) (Kg/l) | 1.38 | – |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.43 | – |
| 6 | Water Absorption(%) | 0.25 | – |

* The results obtained are satisfactory as per standard requirements.

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** **Date: 08-04-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-04-2021 |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 06-04-2021 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken : 5000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 298 | 298 | 6.0 | 94.0 | 90-100 |
| 3 | 10 mm | 2645 | 2943 | 58.9 | 41.1 | 25-55 |
| 4 | 4.75 mm | 1811 | 4754 | 95.1 | 4.9 | 0-10 |
| 5 | Pan | 246 | 5000 | 100 | 0 | – |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2021-06-28-55** **Date: 08-04-2021**

### PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 8.9 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 11.4 | |
| 3 | Specific Gravity | 2.62 | – |
| 4 | Bulk Density(Loose) (Kg/l) | 1.42 | – |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.48 | – |
| 6 | Water Absorption(%) | 0.35 | – |
| 7 | Aggregate crushing Value(%) | 24.8 | Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8 | Aggregate Impact Value(%) | 25.1 | 30% for Aggregates to be used in concrete for wearing Surface,<br>45% for Aggregates to be used in concrete other than for wearing Surface. |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2021-06-28-55**

**Date: 08-04-2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 06-04-2021

**Sample Type** : Fine Aggregate

**Reference to BIS codes** : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

**Date of test** : 06-04-2021

**Total weight taken** : 1000 grams

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 27 | 27 | 2.7 | 97.3 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 55 | 82 | 8.2 | 91.8 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 239 | 321 | 32.1 | 67.9 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 205 | 526 | 52.6 | 47.4 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 203 | 729 | 72.9 | 27.1 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 191 | 920 | 92.0 | 8.0 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 80 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone II**



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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2021-06-28-55**

**Date: 08-04-2021**

## PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.5 | – |
| 2 | Specific Gravity | 2.59 | – |
| 3 | Material finer than 75 micron(%) | 6.9 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

* The results obtained are satisfactory as per standard requirements.

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# TEST RESULTS OF STEEL

**Lab ID** : **CP-2021-06-28-55** **Date: 10-04-2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 09-04-2021

**Sample Type** : Sunvik

**Reference to BIS codes** : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

**Date of test** : 09-04-2021

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress | Tensile strength | Elongation | Bend test | Rebend test |
|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | (kg/m) | (N/mm2) | (N/mm2) | (%) | | |
| 1 | Sunvik | Fe500 | 8 | 0.391 | 512 | 652 | 20.0% | Satisfactory | Satisfactory |
| 2 | Sunvik | Fe500 | 10 | 0.616 | 528 | 672 | 20.0% | Satisfactory | Satisfactory |
| 3 | Sunvik | Fe500 | 12 | 0.888 | 544 | 668 | 20.0% | Satisfactory | Satisfactory |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF PRECAST COVER SLAB

**Lab ID** : **CP-2021-06-28-55**

**Date: 04-05-2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 30-04-2021

**Sample Type /Size** : Precast Cover Slab (100mm)

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete

**Date of test** : 30/04/2021

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 75.51 | 100.48 | 1.116 | 4477 | 80.9 | 18.1 | 16.8 | 21.0 |
| 2 | Cover Slab-2 | 75.49 | 100.52 | 1.122 | 4475 | 82.3 | 18.4 | 17.1 | 21.4 |
| 3 | Cover Slab-3 | 75.50 | 100.51 | 1.118 | 4476 | 81.5 | 18.2 | 16.9 | 21.2 |

* The results obtained are satisfactory as per standard requirements.

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**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**



****End of Report****

Format No: CP/TF/01

# TEST REPORT OF PRECAST COVER SLAB

**Lab ID** : **CP-2021-06-28-55**

**Date: 04-05-2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 30-04-2021

**Sample Type /Size** : Precast Cover Slab (100mm)

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete

**Date of test** : 30/04/2021

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 75.51 | 100.48 | 1.116 | 4477 | 100.9 | 22.5 | 21.0 | 26.2 |
| 2 | Cover Slab-2 | 75.49 | 100.52 | 1.122 | 4475 | 102.3 | 22.9 | 21.3 | 26.6 |
| 3 | Cover Slab-3 | 75.50 | 100.51 | 1.118 | 4476 | 101.5 | 22.7 | 21.1 | 26.4 |

* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro
Sig.....
Date.....
BANGALORE

**FOR CIVIL Pro.**

**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**



****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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# TEST REPORT OF PRECAST COVER SLAB

**Lab ID** : **CP-2021-06-28-55** **Date: 04-05-2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 30-04-2021

**Sample Type /Size** : Precast Cover Slab (250mm)

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete

**Date of test** : 30/04/2021

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 200.51 | 250.48 | 3.116 | 31570 | 580.9 | 18.4 | 17.1 | 21.4 |
| 2 | Cover Slab-2 | 200.49 | 250.52 | 3.122 | 31564 | 582.3 | 18.4 | 17.2 | 21.4 |
| 3 | Cover Slab-3 | 200.50 | 250.51 | 3.118 | 31567 | 581.5 | 18.4 | 17.1 | 21.4 |

* The results obtained are satisfactory as per standard requirements.

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**Technical Manager**


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# TEST REPORT OF CEMENT CONCRETE KERB STONE

**Lab ID** : **CP-2021-06-28-55** **Date: 05-05-2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 01-05-2021

**Sample Type /Size** : CC Kerb Stone/ 450*165*400mm

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete

**Date of test** : 01/05/2021

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | Kg | (Sq.mm) | (KN) | (N/mm2 ) | (N/mm2 ) | (N/mm2 ) |
| 1 | A | 100.01 | 165.51 | 2.864 | 7854 | 142.1 | 18.1 | 18.1 | 22.6 |
| 2 | B | 100.03 | 165.49 | 2.793 | 7857 | 145.2 | 18.5 | 18.5 | 23.1 |
| 3 | C | 100.01 | 165.50 | 2.815 | 7854 | 145.1 | 18.5 | 18.5 | 23.1 |

* The results obtained are satisfactory as per standard requirements.

**Note:**

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 23/04/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 19-04-2021

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 23/04/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 16/04/2021 | 23/04/2021 | 149.43 X 149.10 X 150.69 | 22280 | 9.065 | 270.6 | 12.1 | 12.4 |
| 2 | PCC | M15 | 16/04/2021 | 23/04/2021 | 151.77 X 151.13 X 150.54 | 22937 | 9.085 | 280.8 | 12.2 | |
| 3 | PCC | M15 | 16/04/2021 | 23/04/2021 | 149.43 X 151.77 X 150.60 | 22679 | 8.680 | 287.3 | 12.7 | |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 14/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 19-04-2021

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 14/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 16/04/2021 | 14/05/2021 | 151.75 X 151.01 X 150.52 | 22917 | **8.643** | 412.3 | 18.0 | 17.9 |
| 2 | PCC | M15 | 16/04/2021 | 14/05/2021 | 151.99 X 150.22 X 150.61 | 22833 | **8.551** | 409.0 | 17.9 | |
| 3 | PCC | M15 | 16/04/2021 | 14/05/2021 | 151.37 X 150.35 X 150.51 | 22758 | **8.184** | 404.0 | 17.7 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 23/04/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 19-04-2021

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 23/04/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 16/04/2021 | 23/04/2021 | 150.35 X 149.26 X 150.00 | 22441 | **9.065** | 285.7 | 12.7 | 12.7 |
| 2 | PCC | M15 | 16/04/2021 | 23/04/2021 | 149.91 X 149.48 X 151.07 | 22408 | **9.085** | 279.9 | 12.5 | |
| 3 | PCC | M15 | 16/04/2021 | 23/04/2021 | 151.73 X 150.31 X 151.39 | 22806 | **8.680** | 292.7 | 12.8 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** **Date: 14/05/2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 19-04-2021 |
| **Customer ID** | : | PCC |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M15 / 28 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 14/05/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 16/04/2021 | 14/05/2021 | 151.95 X 150.87 X 151.41 | 22925 | **8.643** | 400.6 | 17.5 | 17.6 |
| 2 | PCC | M15 | 16/04/2021 | 14/05/2021 | 149.27 X 150.05 X 151.26 | 22398 | **8.551** | 393.3 | 17.6 | |
| 3 | PCC | M15 | 16/04/2021 | 14/05/2021 | 151.03 X 149.37 X 149.99 | 22560 | **8.184** | 400.3 | 17.7 | |

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 9

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**Technical Manager**


****End of Report****

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 23/04/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 19-04-2021

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 23/04/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 16/04/2021 | 23/04/2021 | 150.07 X 149.09 X 149.81 | 22373 | **9.065** | 285.5 | 12.8 | 12.6 |
| 2 | PCC | M15 | 16/04/2021 | 23/04/2021 | 150.45 X 150.62 X 149.65 | 22661 | **9.085** | 289.9 | 12.8 | |
| 3 | PCC | M15 | 16/04/2021 | 23/04/2021 | 149.52 X 150.24 X 151.91 | 22464 | **8.680** | 271.8 | 12.1 | |

* The results obtained are satisfactory as per standard requirements.

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BBMP, Bangalore - 97

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Authorized Signatory
**Technical Manager**


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 14/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 19-04-2021

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 14/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 16/04/2021 | 14/05/2021 | 150.00 X 149.42 X 149.46 | 22412 | **8.643** | 385.5 | 17.2 | 17.4 |
| 2 | PCC | M15 | 16/04/2021 | 14/05/2021 | 149.85 X 151.24 X 149.71 | 22663 | **8.551** | 387.3 | 17.1 | |
| 3 | PCC | M15 | 16/04/2021 | 14/05/2021 | 150.80 X 150.48 X 149.96 | 22692 | **8.184** | 403.4 | 17.8 | |

* The results obtained are satisfactory as per standard requirements.

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Vidyaranyapura Sub Divi
BBMP, Bangalore - 97

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**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 30/04/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-04-2021

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 30/04/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 30/04/2021 | 150.47 X 151.15 X 149.07 | 22744 | **8.110** | 424.2 | 18.7 | 18.5 |
| 2 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 30/04/2021 | 150.49 X 151.42 X 150.02 | 22788 | **8.147** | 411.6 | 18.1 | |
| 3 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 30/04/2021 | 150.96 X 151.91 X 150.31 | 22933 | **8.685** | 430.2 | 18.8 | |

* The results obtained are satisfactory as per standard requirements.

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BBMP, Bangalore - 97

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**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 21/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-04-2021

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 21/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 21/05/2021 | 151.26 X 151.43 X 151.34 | 22906 | 8.359 | 527.6 | 23.0 | 22.9 |
| 2 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 21/05/2021 | 150.56 X 150.18 X 150.40 | 22611 | 8.799 | 508.2 | 22.5 | |
| 3 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 21/05/2021 | 150.98 X 149.08 X 151.74 | 22508 | 8.542 | 521.4 | 23.2 | |

* The results obtained are satisfactory as per standard requirements.

**Note:**

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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

**FOR CIVIL Pro.**

**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**


****End of Report****

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 30/04/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-04-2021

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 30/04/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 30/04/2021 | 150.95 X 149.12 X 150.48 | 22510 | **8.110** | 415.3 | 18.5 | 18.6 |
| 2 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 30/04/2021 | 150.48 X 149.06 X 149.80 | 22430 | **8.147** | 418.7 | 18.7 | |
| 3 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 30/04/2021 | 150.75 X 151.95 X 149.23 | 22907 | **8.685** | 430.4 | 18.8 | |

* The results obtained are satisfactory as per standard requirements.

**Note:**

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Vidyaranyapura Sub Division
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**Technical Manager**


****End of Report****

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 21/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-04-2021

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 21/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 21/05/2021 | 149.59 X 151.58 X 150.60 | 22674 | **8.359** | 536.6 | 23.7 | 23.1 |
| 2 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 21/05/2021 | 150.62 X 151.59 X 151.36 | 22834 | **8.799** | 502.3 | 22.0 | |
| 3 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 21/05/2021 | 150.94 X 151.06 X 150.32 | 22801 | **8.542** | 540.9 | 23.7 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 30/04/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-04-2021

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 30/04/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 30/04/2021 | 149.65 X 150.59 X 150.58 | 22535 | **8.110** | 421.1 | 18.7 | 18.8 |
| 2 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 30/04/2021 | 150.92 X 149.89 X 149.83 | 22622 | **8.147** | 420.6 | 18.6 | |
| 3 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 30/04/2021 | 151.71 X 151.92 X 149.74 | 23048 | **8.685** | 437.5 | 19.0 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** **Date: 21/05/2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 26-04-2021 |
| **Customer ID** | : | Drain Bottom Slab Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 28 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 21/05/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 21/05/2021 | 149.98 X 149.16 X 149.98 | 22371 | **8.359** | 533.5 | 23.8 | 23.3 |
| 2 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 21/05/2021 | 150.59 X 150.91 X 150.97 | 22727 | **8.799** | 511.6 | 22.5 | |
| 3 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 21/05/2021 | 150.64 X 151.91 X 151.29 | 22884 | **8.542** | 540.8 | 23.6 | |

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BBMP, Bangalore - 97

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 30/04/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-04-2021

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 30/04/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 30/04/2021 | 149.54 X 150.91 X 149.79 | 22566 | **8.110** | 411.8 | 18.2 | 18.4 |
| 2 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 30/04/2021 | 150.90 X 150.78 X 150.06 | 22753 | **8.147** | 411.4 | 18.1 | |
| 3 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 30/04/2021 | 150.59 X 151.75 X 149.21 | 22853 | **8.685** | 433.3 | 19.0 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 21/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-04-2021

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 21/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 21/05/2021 | 149.43 X 149.18 X 151.71 | 22292 | **8.359** | 515.0 | 23.1 | 23.1 |
| 2 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 21/05/2021 | 151.91 X 150.52 X 151.80 | 22866 | **8.799** | 513.3 | 22.4 | |
| 3 | Drain Bottom Slab Concrete | M20 | 23/04/2021 | 21/05/2021 | 149.53 X 151.39 X 151.35 | 22638 | **8.542** | 537.3 | 23.7 | |

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 01/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-04-2021

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 01/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 01/05/2021 | 150.80 X 151.09 X 150.55 | 22784 | 8.110 | 430.3 | 18.9 | 18.5 |
| 2 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 01/05/2021 | 151.29 X 151.23 X 151.47 | 22880 | 8.147 | 424.3 | 18.5 | |
| 3 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 01/05/2021 | 151.15 X 151.95 X 151.44 | 22966 | 8.685 | 414.6 | 18.1 | |

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

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**Technical Manager**


****End of Report****

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 22/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-04-2021

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 22/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 22/05/2021 | 149.56 X 150.89 X 151.32 | 22567 | **8.359** | 534.7 | 23.7 | 23.2 |
| 2 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 22/05/2021 | 150.75 X 150.04 X 150.13 | 22619 | **8.799** | 498.1 | 22.0 | |
| 3 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 22/05/2021 | 151.39 X 149.70 X 149.28 | 22663 | **8.542** | 538.3 | 23.8 | |

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

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**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**


****End of Report****

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 01/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-04-2021

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 01/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 01/05/2021 | 151.33 X 151.82 X 149.51 | 22976 | **8.110** | 419.2 | 18.2 | 18.3 |
| 2 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 01/05/2021 | 151.89 X 149.21 X 151.31 | 22664 | **8.147** | 420.2 | 18.5 | |
| 3 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 01/05/2021 | 150.13 X 149.59 X 150.94 | 22458 | **8.685** | 404.7 | 18.0 | |

* The results obtained are satisfactory as per standard requirements.

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BBMP, Bangalore - 97

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**Technical Manager**


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 22/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-04-2021

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 22/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 22/05/2021 | 149.32 X 149.73 X 150.09 | 22358 | **8.359** | 522.9 | 23.4 | 23.0 |
| 2 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 22/05/2021 | 150.54 X 151.48 X 151.22 | 22803 | **8.799** | 503.1 | 22.1 | |
| 3 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 22/05/2021 | 150.32 X 149.59 X 151.46 | 22486 | **8.542** | 531.9 | 23.7 | |

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 01/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-04-2021

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 01/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 01/05/2021 | 151.29 X 149.25 X 150.76 | 22581 | 8.110 | 415.1 | 18.4 | 18.4 |
| 2 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 01/05/2021 | 149.48 X 151.54 X 149.19 | 22653 | 8.147 | 408.8 | 18.0 | |
| 3 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 01/05/2021 | 150.46 X 150.09 X 150.28 | 22583 | 8.685 | 423.9 | 18.8 | |

* The results obtained are satisfactory as per standard requirements.

**Note:**

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

**FOR CIVIL Pro.**

**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Date: 22/05/2021**

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 26-04-2021 |
| **Customer ID** | : | Drain Bottom Slab Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 28 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 22/05/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 22/05/2021 | 149.64 X 149.93 X 151.22 | 22436 | **8.359** | 527.9 | 23.5 | 23.2 |
| 2 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 22/05/2021 | 150.07 X 150.58 X 150.40 | 22598 | **8.799** | 518.5 | 22.9 | |
| 3 | Drain Bottom Slab Concrete | M20 | 24/04/2021 | 22/05/2021 | 151.07 X 149.09 X 151.39 | 22523 | **8.542** | 523.9 | 23.3 | |

* The results obtained are satisfactory as per standard requirements.

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**Technical Manager**



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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 03/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 28-04-2021

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 03/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 26/04/2021 | 03/05/2021 | 150.87 X 150.68 X 150.04 | 22733 | **8.110** | 410.7 | 18.1 | 18.1 |
| 2 | Drain Side Wall Concrete | M20 | 26/04/2021 | 03/05/2021 | 151.21 X 150.23 X 149.87 | 22716 | **8.147** | 415.6 | 18.3 | |
| 3 | Drain Side Wall Concrete | M20 | 26/04/2021 | 03/05/2021 | 150.81 X 150.67 X 150.06 | 22723 | **8.685** | 409.6 | 18.0 | |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 24/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 28-04-2021

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 24/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 26/04/2021 | 24/05/2021 | 151.42 X 151.04 X 149.91 | 22870 | **8.359** | 533.2 | 23.3 | 23.1 |
| 2 | Drain Side Wall Concrete | M20 | 26/04/2021 | 24/05/2021 | 149.07 X 149.74 X 151.98 | 22322 | **8.799** | 497.9 | 22.3 | |
| 3 | Drain Side Wall Concrete | M20 | 26/04/2021 | 24/05/2021 | 150.11 X 151.22 X 150.81 | 22699 | **8.542** | 534.6 | 23.6 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 03/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 28-04-2021

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 03/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 26/04/2021 | 03/05/2021 | 150.09 X 150.70 X 149.37 | 22619 | **8.110** | 427.0 | 18.9 | 18.5 |
| 2 | Drain Side Wall Concrete | M20 | 26/04/2021 | 03/05/2021 | 151.46 X 151.72 X 150.26 | 22980 | **8.147** | 429.4 | 18.7 | |
| 3 | Drain Side Wall Concrete | M20 | 26/04/2021 | 03/05/2021 | 150.33 X 149.75 X 149.19 | 22511 | **8.685** | 406.5 | 18.1 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 24/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 28-04-2021

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 24/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 26/04/2021 | 24/05/2021 | 149.01 X 149.08 X 150.60 | 22214 | **8.359** | 530.0 | 23.9 | 23.2 |
| 2 | Drain Side Wall Concrete | M20 | 26/04/2021 | 24/05/2021 | 149.67 X 151.43 X 151.45 | 22664 | **8.799** | 512.8 | 22.6 | |
| 3 | Drain Side Wall Concrete | M20 | 26/04/2021 | 24/05/2021 | 151.70 X 150.68 X 149.32 | 22858 | **8.542** | 531.4 | 23.2 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 03/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 28-04-2021

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 03/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 26/04/2021 | 03/05/2021 | 149.24 X 149.71 X 150.21 | 22342 | **8.110** | 414.6 | 18.6 | 18.5 |
| 2 | Drain Side Wall Concrete | M20 | 26/04/2021 | 03/05/2021 | 149.38 X 149.28 X 151.30 | 22299 | **8.147** | 402.1 | 18.0 | |
| 3 | Drain Side Wall Concrete | M20 | 26/04/2021 | 03/05/2021 | 149.65 X 149.08 X 149.80 | 22310 | **8.685** | 420.7 | 18.9 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** **Date: 24/05/2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 28-04-2021 |
| **Customer ID** | : | Drain Side Wall Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 28 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 24/05/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 26/04/2021 | 24/05/2021 | 149.65 X 150.89 X 149.39 | 22580 | **8.359** | 535.0 | 23.7 | 23.1 |
| 2 | Drain Side Wall Concrete | M20 | 26/04/2021 | 24/05/2021 | 149.82 X 149.08 X 151.36 | 22335 | **8.799** | 499.1 | 22.3 | |
| 3 | Drain Side Wall Concrete | M20 | 26/04/2021 | 24/05/2021 | 150.46 X 151.49 X 151.28 | 22793 | **8.542** | 530.6 | 23.3 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 03/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 28-04-2021

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 03/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 26/04/2021 | 03/05/2021 | 149.67 X 150.95 X 149.10 | 22593 | 8.110 | 426.4 | 18.9 | 18.6 |
| 2 | Drain Side Wall Concrete | M20 | 26/04/2021 | 03/05/2021 | 151.21 X 149.92 X 150.32 | 22669 | 8.147 | 411.0 | 18.1 | |
| 3 | Drain Side Wall Concrete | M20 | 26/04/2021 | 03/05/2021 | 150.58 X 149.16 X 151.33 | 22460 | 8.685 | 423.4 | 18.9 | |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** **Date: 24/05/2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 28-04-2021 |
| **Customer ID** | : | Drain Side Wall Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 28 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 24/05/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 26/04/2021 | 24/05/2021 | 151.76 X 149.63 X 151.89 | 22708 | **8.359** | 536.0 | 23.6 | 23.3 |
| 2 | Drain Side Wall Concrete | M20 | 26/04/2021 | 24/05/2021 | 150.82 X 151.77 X 150.11 | 22890 | **8.799** | 524.5 | 22.9 | |
| 3 | Drain Side Wall Concrete | M20 | 26/04/2021 | 24/05/2021 | 149.42 X 151.81 X 149.91 | 22683 | **8.542** | 531.6 | 23.4 | |

* The results obtained are satisfactory as per standard requirements.

**Note:**

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Authorized Signatory
**Technical Manager**


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 04/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 29-04-2021

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 04/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 27/04/2021 | 04/05/2021 | 151.01 X 150.81 X 149.68 | 22774 | **8.110** | 410.3 | 18.0 | 18.3 |
| 2 | Drain Side Wall Concrete | M20 | 27/04/2021 | 04/05/2021 | 149.54 X 149.28 X 150.96 | 22323 | **8.147** | 411.9 | 18.5 | |
| 3 | Drain Side Wall Concrete | M20 | 27/04/2021 | 04/05/2021 | 150.68 X 149.43 X 150.47 | 22517 | **8.685** | 411.9 | 18.3 | |

* The results obtained are satisfactory as per standard requirements.

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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

**FOR CIVIL Pro.**

**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**



****End of Report****

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Date: 25/05/2021**

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 29-04-2021 |
| **Customer ID** | : | Drain Side Wall Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 28 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 25/05/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 27/04/2021 | 25/05/2021 | 150.90 X 151.91 X 150.01 | 22923 | **8.359** | 548.7 | 23.9 | 23.3 |
| 2 | Drain Side Wall Concrete | M20 | 27/04/2021 | 25/05/2021 | 149.00 X 151.59 X 151.38 | 22588 | **8.799** | 513.9 | 22.7 | |
| 3 | Drain Side Wall Concrete | M20 | 27/04/2021 | 25/05/2021 | 150.32 X 149.64 X 149.94 | 22494 | **8.542** | 525.5 | 23.4 | |

* The results obtained are satisfactory as per standard requirements.

**Note:**

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Vidyaranyapura Sub Division
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**Technical Manager**


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 04/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 29-04-2021

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 04/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 27/04/2021 | 04/05/2021 | 149.16 X 149.30 X 149.05 | 22268 | **8.110** | 420.4 | 18.9 | 18.6 |
| 2 | Drain Side Wall Concrete | M20 | 27/04/2021 | 04/05/2021 | 150.28 X 149.84 X 151.20 | 22518 | **8.147** | 409.3 | 18.2 | |
| 3 | Drain Side Wall Concrete | M20 | 27/04/2021 | 04/05/2021 | 149.32 X 149.77 X 149.08 | 22364 | **8.685** | 419.9 | 18.8 | |

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****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** **Date: 25/05/2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 29-04-2021 |
| **Customer ID** | : | Drain Side Wall Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 28 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 25/05/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 27/04/2021 | 25/05/2021 | 149.56 X 150.91 X 149.00 | 22570 | **8.359** | 539.9 | 23.9 | 23.2 |
| 2 | Drain Side Wall Concrete | M20 | 27/04/2021 | 25/05/2021 | 151.20 X 150.09 X 149.79 | 22693 | **8.799** | 505.8 | 22.3 | |
| 3 | Drain Side Wall Concrete | M20 | 27/04/2021 | 25/05/2021 | 149.81 X 149.26 X 151.29 | 22361 | **8.542** | 526.2 | 23.5 | |

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**Technical Manager**


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Date: 04/05/2021**

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 29-04-2021 |
| **Customer ID** | : | Drain Side Wall Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 04/05/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 27/04/2021 | 04/05/2021 | 151.76 X 150.56 X 151.46 | 22849 | **8.110** | 434.1 | 19.0 | 18.6 |
| 2 | Drain Side Wall Concrete | M20 | 27/04/2021 | 04/05/2021 | 150.38 X 150.10 X 149.33 | 22572 | **8.147** | 420.1 | 18.6 | |
| 3 | Drain Side Wall Concrete | M20 | 27/04/2021 | 04/05/2021 | 151.08 X 151.54 X 151.80 | 22894 | **8.685** | 415.8 | 18.2 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 25/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 29-04-2021

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 25/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 27/04/2021 | 25/05/2021 | 151.80 X 151.37 X 149.73 | 22977 | **8.359** | 550.1 | 23.9 | 23.5 |
| 2 | Drain Side Wall Concrete | M20 | 27/04/2021 | 25/05/2021 | 151.94 X 150.46 X 149.69 | 22861 | **8.799** | 519.1 | 22.7 | |
| 3 | Drain Side Wall Concrete | M20 | 27/04/2021 | 25/05/2021 | 151.28 X 151.63 X 149.05 | 22938 | **8.542** | 544.7 | 23.7 | |

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 18/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 13-05-2021

**Customer ID** : Cement Concrete Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 18/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 149.25 X 150.11 X 150.78 | 22405 | 8.446 | 576.4 | 25.7 | 25.8 |
| 2 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 151.20 X 150.77 X 151.16 | 22797 | 8.934 | 613.7 | 26.9 | |
| 3 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 149.08 X 150.75 X 150.71 | 22474 | 8.383 | 553.7 | 24.6 | |

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 08/06/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 13-05-2021

**Customer ID** : Cement Concrete Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 08/06/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 149.50 X 150.04 X 149.56 | 22431 | **8.649** | 751.0 | 33.5 | 33.3 |
| 2 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 150.71 X 149.40 X 151.67 | 22517 | **8.239** | 741.0 | 32.9 | |
| 3 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 150.76 X 150.26 X 151.17 | 22652 | **8.327** | 760.9 | 33.6 | |

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Authorized Signatory
**Technical Manager**


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 18/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 13-05-2021

**Customer ID** : Cement Concrete Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 18/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 150.99 X 151.91 X 149.83 | 22937 | 8.446 | 587.9 | 25.6 | 25.4 |
| 2 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 149.50 X 149.73 X 149.68 | 22385 | 8.934 | 583.8 | 26.1 | |
| 3 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 151.17 X 149.34 X 149.38 | 22576 | 8.383 | 552.2 | 24.5 | |

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Technical Manager


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 08/06/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 13-05-2021

**Customer ID** : Cement Concrete Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 08/06/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 150.82 X 149.69 X 150.88 | 22576 | 8.649 | 747.2 | 33.1 | 33.1 |
| 2 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 149.50 X 151.85 X 149.40 | 22701 | 8.239 | 740.9 | 32.6 | |
| 3 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 150.20 X 150.54 X 150.10 | 22610 | 8.327 | 758.7 | 33.6 | |

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BBMP, Bangalore - 97

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Date: 18/05/2021**

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 13-05-2021 |
| **Customer ID** | : | Cement Concrete Pavement |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M30 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 18/05/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 151.46 X 150.09 X 150.37 | 22733 | 8.446 | 588.6 | 25.9 | 25.8 |
| 2 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 151.59 X 151.20 X 151.27 | 22921 | 8.934 | 617.4 | 26.9 | |
| 3 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 150.79 X 150.25 X 149.63 | 22657 | 8.383 | 555.8 | 24.5 | |

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Authorized Signatory
Technical Manager


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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** **Date: 08/06/2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 13-05-2021 |
| **Customer ID** | : | Cement Concrete Pavement |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M30 / 28 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 08/06/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 151.03 X 151.67 X 149.01 | 22908 | **8.649** | 764.1 | 33.4 | 33.1 |
| 2 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 149.09 X 149.13 X 150.03 | 22233 | **8.239** | 732.4 | 32.9 | |
| 3 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 151.27 X 149.86 X 151.36 | 22671 | **8.327** | 749.6 | 33.1 | |

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Vidyaranyapura Sub Division
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**Technical Manager**


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55**

**Date: 18/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 13-05-2021

**Customer ID** : Cement Concrete Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 18/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 151.63 X 150.96 X 151.33 | 22891 | 8.446 | 583.6 | 25.5 | 25.4 |
| 2 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 150.91 X 149.61 X 151.03 | 22578 | 8.934 | 589.8 | 26.1 | |
| 3 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 151.93 X 151.82 X 151.04 | 23067 | 8.383 | 564.4 | 24.5 | |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 08/06/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 13-05-2021

**Customer ID** : Cement Concrete Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 08/06/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 150.76 X 150.27 X 149.92 | 22656 | **8.649** | 757.7 | 33.4 | 33.3 |
| 2 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 150.81 X 149.91 X 151.75 | 22608 | **8.239** | 735.5 | 32.5 | |
| 3 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 151.68 X 151.12 X 151.90 | 22922 | **8.327** | 778.5 | 34.0 | |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2021-06-28-55** **Date: 18/05/2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer's Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 13-05-2021

**Customer ID** : Cement Concrete Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 18/05/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 149.90 X 149.93 X 150.94 | 22474 | **8.446** | 571.6 | 25.4 | 25.5 |
| 2 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 149.65 X 151.08 X 149.37 | 22610 | **8.934** | 602.8 | 26.7 | |
| 3 | Cement Concrete Pavement | M30 | 11/05/2021 | 18/05/2021 | 149.92 X 149.95 X 150.79 | 22482 | **8.383** | 545.4 | 24.3 | |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-06-28-55** **Date: 08/06/2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 13-05-2021 |
| **Customer ID** | : | Cement Concrete Pavement |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M30 / 28 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 08/06/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 151.77 X 150.27 X 150.58 | 22806 | **8.649** | 763.3 | 33.5 | 33.3 |
| 2 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 151.77 X 150.59 X 151.64 | 22854 | **8.239** | 740.9 | 32.4 | |
| 3 | Cement Concrete Pavement | M30 | 11/05/2021 | 08/06/2021 | 150.47 X 149.27 X 149.22 | 22461 | **8.327** | 761.2 | 33.9 | |

* The results obtained are satisfactory as per standard requirements.

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**Technical Manager**


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# TEST RESULTS OF GRADATION FOR GSB
## (IS 2386:(Part 1) 1963 (RA2011)

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2021-06-28-55** **Date: 21-04-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 19-04-2021 |
| **Type of Mix** | : | GSB (Granular Sub Base) |
| **Date of Test** | : | 19-04-2021 |
| **Oven Dry Weight** | : | 10000 Grams |

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec. Limit Vide Table 400.1 MORTH Specification |
|---|---|---|---|---|---|
| 75 | 0 | 0 | 0 | 100 | 100 |
| 53 | 997 | 997 | 9.97 | 90.03 | 80-100 |
| 26.5 | 1685 | 2682 | 26.82 | 73.18 | 55-90 |
| 9.5 | 1292 | 3974 | 39.74 | 60.26 | 35-65 |
| 4.75 | 1490 | 5464 | 54.64 | 45.36 | 25-55 |
| 2.36 | 1764 | 7228 | 72.28 | 27.72 | 20-40 |
| 0.425 | 1666 | 8894 | 88.94 | 11.06 | 10-25 |
| 0.075 | 1106 | 10000 | 100.00 | 0.00 | 0-5 |

**TESTS ON FILLER SCREEN MATERIALS**

| Sl no | Particulars | Test results | Spec.Limit Vide Table |
|---|---|---|---|
| 1 | Liquid Limit, % | 21.33% | Maximum 25 |
| 2 | Plasticity index, % | Non plastic | Maximum 6 |

* The results obtained are satisfactory as per standard requirements.

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**Technical Manager**


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# TEST RESULTS OF GRADATION FOR WMM

**Lab ID** : **CP-RW-2021-06-28-55** **Date: 26-04-2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 24-04-2021

**Type of Mix** : WMM ( Wet Mix Macadam)

**Date of Test** : 24-04-2021

**Oven Dry Weight** : 11000 Grams

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec.I.Vide Table 400.13 MORTH Specification |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0.0 | 100.0 | 100 |
| 45 | 315 | 315 | 2.9 | 97.1 | 95-100 |
| 22.4 | 2259 | 2574 | 23.4 | 76.6 | 60-80 |
| 11.2 | 2179 | 4753 | 43.2 | 56.8 | 40-60 |
| 4.75 | 2251 | 7004 | 63.7 | 36.3 | 25-40 |
| 2.36 | 1621 | 8625 | 78.4 | 21.6 | 15-30 |
| 0.6 | 623 | 9248 | 84.1 | 15.9 | 8-22 |
| 0.075 | 1338 | 10586 | 96.2 | 3.8 | 0-5 |

* The results obtained are satisfactory as per standard requirements.

**Note:-**

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# TEST RESULTS OF GRADATION FOR WMM

**Lab ID** : **CP-RW-2021-06-28-55** **Date: 28-04-2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-04-2021

**Type of Mix** : WMM ( Wet Mix Macadam)

**Date of Test** : 26-04-2021

**Oven Dry Weight** : 11000 Grams

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec.I.Vide Table 400.13 MORTH Specification |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0.0 | 100.0 | 100 |
| 45 | 315 | 315 | 2.9 | 97.1 | 95-100 |
| 22.4 | 2259 | 2574 | 23.4 | 76.6 | 60-80 |
| 11.2 | 2179 | 4753 | 43.2 | 56.8 | 40-60 |
| 4.75 | 2251 | 7004 | 63.7 | 36.3 | 25-40 |
| 2.36 | 1621 | 8625 | 78.4 | 21.6 | 15-30 |
| 0.6 | 623 | 9248 | 84.1 | 15.9 | 8-22 |
| 0.075 | 1338 | 10586 | 96.2 | 3.8 | 0-5 |

* The results obtained are satisfactory as per standard requirements.

**Note:-**

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Page 1/1
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# TEST REPORT OF AGGEGRATE IMPACT VALUE
## IS: 2386 Part IV

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2021-06-28-55** **Date: 26-04-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 24-04-2021 |
| **Type of Mix** | : | Coarse Aggregate for WMM ( Wet Mix Macadam) |
| **Date of Test** | : | 24-04-2021 |

| Sl.No | Particulars of observations | Index | TEST 1 | TEST 2 |
|---|---|---|---|---|
| 1 | Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve) | A | 300.2 | 300.2 |
| 2 | Weight of fraction passing 2.36mm sieve After giving 15 blows | B | 73.9 | 74.0 |
| 3 | weight of fraction retained 2.36mm sieve After giving 15 blows | C | 225.9 | 225.8 |
| 4 | Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made. | A-(B+C) | 0.4 | 0.4 |
| 5 | Aggregate impact value | (B/A)*100 | 24.6 | 24.7 |
| 6 | Aggregate impact value ( Mean of two tests) | Pecentage | 24.6 | |

* The results obtained are satisfactory as per standard requirements.

**Note:-**

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All information Furnished by Customer/ Representative
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# DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007 )

| | | | |
|---|---|---|---|
| **Lab ID** | : | **CP-RW-2021-06-28-55** | **Date: 26-04-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. | |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. | |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) | |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 | |
| **Customer Reference** | : | BBMP/EE/BTP/WO/135/2020-21 | |
| **Source of Sample** | : | Sample supplied by Agency | |
| **Sample Condition** | : | Satisfactory | |
| **Date of Receipt** | : | 24-04-2021 | |
| **Type of Mix** | : | Coarse Aggregate for WMM ( Wet Mix Macadam) | |
| **Date of Test** | : | 24-04-2021 | |

**Result:**

| Index | Percentage of Flakiness and Elongation Index | Secified limits as per MORTH specification table 400-12 |
|---|---|---|
| Flakiness Index | 12.8% | Combined Flakiness & Elongation Index for WMM is Maximum 35% |
| Elongation Index | 12.5% | |
| Combined Flakiness and Elongation Index for WMM | 25.3% | |

* The results obtained are satisfactory as per standard requirements.

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**Technical Manager**


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# TEST REPORT ON BITUMEN

| | | | |
|---|---|---|---|
| **Lab ID** | : | **CP-RW-2021-06-28-55** | **Date: 03-05-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. | |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. | |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) | |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 | |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/135/2020-21 | |
| **Source of Sample** | : | Sample supplied by Agency | |
| **Sample Condition** | : | Satisfactory | |
| **Date of Receipt** | : | 01-05-2021 | |
| **Sample Type** | : | Bitumen | |
| **Reference to BIS codes** | : | IS: 1201-1220(1978) (Reaffirmed-2004) | |
| **Date of Test** | : | 01-05-2021 | |

## Test Results

| Sl.no | Name of Test | Result | Requirements as per IS:73-2013 |
|---|---|---|---|
| 1 | Penetration at 25°C , in 1/10th mm | **64** | 60 to 70 |
| 2 | Softening Point, °C | **51.2** | Min. 40°C |
| 3 | Ductility, cm | **98** | Min. 75cm |
| 4 | Flash point, °C | **245** | Min. 220°C |
| | Fire point, °C | **272** | |

* The results obtained are satisfactory as per standard requirements.

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**Technical Manager**


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# TEST RESULTS OF GRADATION FOR DBM
## (IS 2386:(Part 1) 1963 (RA2011)

**Lab ID** : **CP-RW-2021-06-28-55** **Date: 07-05-2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 05-05-2021

**Type of Mix** : DBM-Plant (Dense Bituminous Macadam)

**Date of Test** : 05-05-2021

**Weight of Sample** : 5000 Grams

| IS Sieve Size (mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Specification Limits as per MORTH specification Table 500-10 (grading -2) |
|---|---|---|---|---|---|
| 37.5 | 0 | 0 | 0 | 100 | 100 |
| 26.5 | 250 | 250 | 5.00 | 95.00 | 90-100 |
| 19 | 350 | 600 | 12.00 | 88.00 | 71-95 |
| 13.2 | 450 | 1050 | 21.00 | 79.00 | 56-80 |
| 4.75 | 1750 | 2800 | 56.00 | 44.00 | 38-54 |
| 2.36 | 400 | 3200 | 64.00 | 36.00 | 28-42 |
| 0.3 | 1350 | 4550 | 91.00 | 9.00 | 7-21 |
| 0.075 | 250 | 4800 | 96.00 | 4.00 | 2-8 |
| PAN | 200 | 5000 | 0.00 | 0 | 0 |

* The results obtained are satisfactory as per standard requirements.

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Page 1/1
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# PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

| | | | |
|---|---|---|---|
| **Lab ID** | : | **CP-RW-2021-06-28-55** | **Date: 08-05-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. | |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. | |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) | |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 | |
| **Customer Reference** | : | BBMP/EE/BTP/WO/135/2020-21 | |
| **Source of Sample** | : | Sample supplied by Agency | |
| **Sample Condition** | : | Satisfactory | |
| **Date of Receipt** | : | 05-05-2021 | |
| **Type of Mix** | : | DBM (Dense Bituminous Macadam) | |
| **Date of Test** | : | 05-05-2021 | |

**Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam**

| Property | Test | Result | Specification | Method of Test |
|---|---|---|---|---|
| Partical Shape | Flakiness Index | 8.0 | Combined Flakiness & Elongation Index for DBM is Maximum 35% | IS:2386 Part I |
| | Elongation Index | 12.0 | | |
| Strength | Aggregate Impact Value | 20.0 | Maximum 30% | IS:2386 Part IV |
| Specific gravity | Specific gravity | 2.58 | Maximum 2.7 | IS:2386 Part III |
| Water Absorption | Water Absorption | 0.38 | Maximum 2% | IS:2386 Part III |

* The results obtained are satisfactory as per standard requirements.

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# TESTS RESULTS ON STABILITY OF MIX

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2021-06-28-55** **Date: 08-05-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Hot Mix Plant, Bangalore |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 05-05-2021 |
| **Type of Mix** | : | DBM (Dense Bituminous Mecadam) |
| **Date of Test** | : | 05-05-2021 |

**The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow**

| Sl.No | Particulars of observations | TEST 1 | TEST 2 | Secified limits as per MORTH specification table 500-11 |
|---|---|---|---|---|
| 1 | Marshal Stability at 60°C, KN | 10 | 14 | 9KN(Min) |
| 2 | Marshal flow at 60°C, mm | 2 | 3 | 2-4 |
| 3 | Percent air Voids | 4 | 3 | 3-5 |
| 4 | Percent Voids in mineral Aggregate(VMA %) | 13 | 15 | 13-15 |
| 5 | Percent Voids filled with Bitumen(VFB %) | 75 | 72 | 65-75 |
| 6 | Density, g/cc | 2.42 | 2.40 | – |

* The results obtained are satisfactory as per standard requirements.

**Note:-**

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# TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2021-06-28-55** **Date: 08-05-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 05-05-2021 |
| **Type of Mix** | : | DBM(Dense Bitumnous Macadam) |
| **Date of Test** | : | 05-05-2021 |

| | | |
|---|---|---|
| **Type of Binder** | : | 60/70 |
| **% of Binder Used** | : | 5.0% |
| **Weight of Aggregate** | : | 200.0 gm |
| **Weight of Binder** | : | 10.0 gm |
| **Temperature of water bath** | : | 40°C |

| No of test | Retained Stripping Percentage | Stripping Percentage | Average Retained Stripping Percentage | Secified limits as per MORTH specification table 500-8 |
|---|---|---|---|---|
| 1 | 96.0 | 4.0 | 97.3 | Minimum Retained Coating 95% |
| 2 | 97.0 | 3.0 | | |
| 3 | 99.0 | 1.0 | | |

* The results obtained are satisfactory as per standard requirements.

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# TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

| | | | |
|---|---|---|---|
| **Lab ID** | : | **CP-RW-2021-06-28-55** | **Date: 17-05-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. | |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. | |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) | |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 | |
| **Customer Reference** | : | BBMP/EE/BTP/WO/135/2020-21 | |
| **Source of Sample** | : | Sample supplied by Agency | |
| **Date of Receipt** | : | 15-05-2021 | |
| **Type of Mix** | : | DBM (Dense Bituminous Macadam) | |
| **Date of Test** | : | 15-05-2021 | |

| Sl.no | Description | Index | Trail 1 | Trail 2 |
|---|---|---|---|---|
| 1 | Weight of the Sample | A | 500 | 500 |
| 2 | Weight of the sample After extraction | B | 475 | 476 |
| 3 | Bitumen percentage | $\frac{A-B}{A} \times 100$ | 4.8 | 4.8 |
| 4 | Average percentage | % | 4.8 | |

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**Lab ID** : **CP-RW-2021-06-28-55** **Date: 17-05-2021**

**AFTER EXTRACTION(Trail-1)**

**Weight of Sample(gm)** : 475

| IS Sieve Size(mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Specification Limits as per MORTH specification Table 500-10(grading -2) |
|---|---|---|---|---|---|
| 37.5 | 0 | 0 | 0 | 100.0 | 100 |
| 26.5 | 14.4 | 14.4 | 3.03 | 97.0 | 90-100 |
| 19 | 24 | 38.4 | 8.08 | 91.9 | 71-95 |
| 13.2 | 120 | 158.4 | 33.35 | 66.7 | 56-80 |
| 4.75 | 96 | 254.4 | 53.56 | 46.4 | 38-54 |
| 2.36 | 80 | 334.4 | 70.40 | 29.6 | 28-42 |
| 0.3 | 62.4 | 396.8 | 83.54 | 16.5 | 7-21 |
| 0.075 | 52.8 | 449.6 | 94.65 | 5.3 | 2-8 |

**AFTER EXTRACTION(Trail-2)**

**Weight of Sample(gm)** : 476

| IS Sieve Size(mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Specification Limits as per MORTH specification Table 500-10(grading -2) |
|---|---|---|---|---|---|
| 37.5 | 0 | 0 | 0 | 100.0 | 100 |
| 26.5 | 0 | 0 | 0.00 | 100.0 | 90-100 |
| 19 | 48 | 48 | 10.08 | 89.9 | 71-95 |
| 13.2 | 50 | 98 | 20.59 | 79.4 | 56-80 |
| 4.75 | 170 | 268 | 56.30 | 43.7 | 38-54 |
| 2.36 | 10 | 278 | 58.40 | 41.6 | 28-42 |
| 0.3 | 99 | 377 | 79.20 | 20.8 | 7-21 |
| 0.075 | 80 | 457 | 96.01 | 4.0 | 2-8 |

* The results obtained are satisfactory as per standard requirements.

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## TEST RESULTS OF GRADATION FOR BC
## IS 2386 (Part 1) 1963 (RA 2007 )

| | | | |
|---|---|---|---|
| **Lab ID** | : | **CP-RW-2021-06-28-55** | **Date: 12-05-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. | |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. | |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) | |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 | |
| **Customer Reference** | : | BBMP/EE/BTP/WO/135/2020-21 | |
| **Source of Sample** | : | Sample supplied by Agency | |
| **Sample Condition** | : | Satisfactory | |
| **Date of Receipt** | : | 10-05-2021 | |
| **Type of Mix** | : | BC-Plant (Bituminous Concrete) | |
| **Date of Test** | : | 10-05-2021 | |
| **Oven Dry Weight** | : | 5000 Grams | |

| IS Sieve Size (mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Secified limits as per MORTH specification table 500-17(grading-2) |
|---|---|---|---|---|---|
| 19 | 0 | 0 | 0.0 | 100.0 | 100 |
| 13.2 | 89 | 89 | 1.8 | 98.2 | 90-100 |
| 9.5 | 702 | 791 | 15.8 | 84.2 | 70-88 |
| 4.75 | 895 | 1686 | 33.7 | 66.3 | 53-71 |
| 2.36 | 587 | 2273 | 45.5 | 54.5 | 42-58 |
| 1.18 | 492 | 2765 | 55.3 | 44.7 | 34-48 |
| 0.6 | 503 | 3268 | 65.4 | 34.6 | 26-38 |
| 0.3 | 528 | 3796 | 75.9 | 24.1 | 18-28 |
| 0.15 | 458 | 4254 | 85.1 | 14.9 | 12-20 |
| 0.075 | 350 | 4604 | 92.1 | 7.9 | 4-10 |
| PAN | 396 | 5000 | 100 | 0.0 | 0 |

* The results obtained are satisfactory as per standard requirements.

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## TEST RESULTS OF GRADATION FOR BC
## IS 2386 (Part 1) 1963 (RA 2007 )

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2021-06-28-55** **Date: 13-05-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 11-05-2021 |
| **Type of Mix** | : | BC-Plant (Bituminous Concrete) |
| **Date of Test** | : | 11-05-2021 |
| **Oven Dry Weight** | : | 5000 Grams |

| IS Sieve Size (mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Secified limits as per MORTH specification table 500-17(grading-2) |
|---|---|---|---|---|---|
| 19 | 0 | 0 | 0.0 | 100.0 | 100 |
| 13.2 | 89 | 89 | 1.8 | 98.2 | 90-100 |
| 9.5 | 702 | 791 | 15.8 | 84.2 | 70-88 |
| 4.75 | 895 | 1686 | 33.7 | 66.3 | 53-71 |
| 2.36 | 587 | 2273 | 45.5 | 54.5 | 42-58 |
| 1.18 | 492 | 2765 | 55.3 | 44.7 | 34-48 |
| 0.6 | 503 | 3268 | 65.4 | 34.6 | 26-38 |
| 0.3 | 528 | 3796 | 75.9 | 24.1 | 18-28 |
| 0.15 | 458 | 4254 | 85.1 | 14.9 | 12-20 |
| 0.075 | 350 | 4604 | 92.1 | 7.9 | 4-10 |
| PAN | 396 | 5000 | 100 | 0.0 | 0 |

* The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

**Lab ID** : **CP-RW-2021-06-28-55** **Date: 13-05-2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 10-05-2021

**Type of Mix** : BC(Bitumenous Concrete)

**Date of Test** : 10-05-2021

**Type of Binder** : 60/70

**% of Binder Used** : 5.0%

**Weight of Aggregate** : 200.0 gm

**Weight of Binder** : 10.0 gm

**Temperature of water bath** : 40°C

| No of test | Retained Stripping Percentage | Stripping Percentage | Average Retained Stripping Percentage | Secified limits as per MORTH specification table 500-8 |
|---|---|---|---|---|
| 1 | 98.5 | 1.5 | 98.3 | Minimum Retained Coating 95% |
| 2 | 98.5 | 1.5 | | |
| 3 | 98.0 | 2.0 | | |

* The results obtained are satisfactory as per standard requirements.

**Note:-**
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# PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

**Lab ID** : **CP-RW-2021-06-28-55** **Date: 13-05-2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 10-05-2021

**Type of Mix** : BC (Bituminous Concrete)

**Date of Test** : 10-05-2021

**Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete**

| Property | Test | Result | Specification | Method of Test |
|---|---|---|---|---|
| Partical Shape | Flakiness Index | 12.4 | Combined Flakiness & Elongation Index for BC is Maximum 35% | IS:2386 Part I |
| | Elongation Index | 11.8 | | |
| Strength | Aggregate Impact Value | 22.1 | Maximum 24% | IS:2386 Part IV |
| Specific gravity | Specific gravity | 2.68 | Maximum 2.7 | IS:2386 Part III |
| Water Absorption | Water Absorption | 0.21 | Maximum 2% | IS:2386 Part III |

* The results obtained are satisfactory as per standard requirements.

**Note:-**

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# TESTS RESULTS ON STABILITY OF MIX

**Lab ID** : **CP-RW-2021-06-28-55** **Date: 13-05-2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Hot Mix Plant, Bangalore

**Sample Condition** : Satisfactory

**Date of Receipt** : 10-05-2021

**Type of Mix** : BC (Bituminous Concrete)

**Date of Test** : 10-05-2021

**The results of the tests conducted on the Bituminous Concrete mix sample are as follow**

| Sl.No | Particulars of observations | TEST 1 | TEST 2 | Secified limits as per MORTH specification table 500-11 |
|---|---|---|---|---|
| 1 | Marshal Stability at 60°C, KN | 11.14 | 11.13 | 10KN(min) |
| 2 | Marshal flow at 60°C, mm | 3.52 | 3.51 | 2-4 |
| 3 | Percent air Voids | 4.82 | 4.83 | 3-5 |
| 4 | Percent Voids in mineral Aggregate(VMA %) | 14.28 | 14.26 | 13-15 |
| 5 | Percent Voids filled with Bitumen(VFB %) | 71.87 | 71.63 | 65-75 |
| 6 | Density, g/cc | 2.25 | 2.26 | – |

* The results obtained are satisfactory as per standard requirements.

**Note:-**

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## TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
## IS 2386 (Part 1) 1963 (RA 2011 )

**Lab ID** : **CP-RW-2021-06-28-55** **Date: 18-05-2021**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Package No.01 (Package consists of 3 works of ward number 09)

**Agency** : Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013

**Customer Reference** : BBMP/EE/BTP/WO/135/2020-21

**Source of Sample** : Sample supplied by Agency

**Date of Receipt** : 17-05-2021

**Type of Mix** : BC (Bituminous Concrete)

**Date of Test** : 17-05-2021

| Sl.no | Description | Index | Trail 1 | Trail 2 |
|---|---|---|---|---|
| 1 | Weight of the Sample | A | 500 | 500 |
| 2 | Weight of the sample After extraction | B | 471 | 472 |
| 3 | Bitumen percentage | $\frac{A-B}{A} \times 100$ | 5.80 | 5.60 |
| 4 | Average percentage | % | 5.7 | |

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**Lab ID** : **CP-RW-2021-06-28-55** **Date: 18-05-2021**

**AFTER EXTRACTION - Trail-1**

**Total Weight of the Sample(gm)** : 471

| IS Sieve Size (mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Secified limits as per MORTH specification table 500-23(grading-2) |
|---|---|---|---|---|---|
| 19 | 0 | 0 | 0.0 | 100.0 | 100 |
| 13.2 | 4 | 4 | 0.8 | 99.2 | 90-100 |
| 9.5 | 62 | 66 | 14.0 | 86.0 | 70-88 |
| 4.75 | 112 | 178 | 37.8 | 62.2 | 53-71 |
| 2.36 | 88 | 266 | 56.5 | 43.5 | 42-58 |
| 1.18 | 29 | 295 | 62.6 | 37.4 | 34-48 |
| 0.6 | 11 | 306 | 65.0 | 35.0 | 26-38 |
| 0.3 | 46 | 352 | 74.7 | 25.3 | 18-28 |
| 0.15 | 45 | 397 | 84.3 | 15.7 | 12-20 |
| 0.075 | 55 | 452 | 96.0 | 4.0 | 4-10 |

**AFTER EXTRACTION - Trail-2**

**Total Weight of the Sample(gm)** : 472

| IS Sieve Size (mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Secified limits as per MORTH specification table 500-23(grading-2) |
|---|---|---|---|---|---|
| 19 | 0 | 0 | 0.0 | 100.0 | 100 |
| 13.2 | 4 | 4 | 0.8 | 99.2 | 90-100 |
| 9.5 | 62 | 66 | 14.0 | 86.0 | 70-88 |
| 4.75 | 112 | 178 | 37.7 | 62.3 | 53-71 |
| 2.36 | 88 | 266 | 56.4 | 43.6 | 42-58 |
| 1.18 | 29 | 295 | 62.5 | 37.5 | 34-48 |
| 0.6 | 11 | 306 | 64.8 | 35.2 | 26-38 |
| 0.3 | 46 | 352 | 74.6 | 25.4 | 18-28 |
| 0.15 | 45 | 397 | 84.1 | 15.9 | 12-20 |
| 0.075 | 55 | 452 | 95.8 | 4.2 | 4-10 |

* The results obtained are satisfactory as per standard requirements.

**Note:-**

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

**FOR CIVIL Pro.**

**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**



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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

## DETERMINATION OF RATE OF SPREAD TACK COAT

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2021-06-28-55** **Date: 18-05-2021** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Package No.01 (Package consists of 3 works of ward number 09) |
| **Agency** | : | Sri.Aswathnarayana, #38,Channappa Layout, Sharadhambanagara, Jalahalli Village, Bangalore-560013 |
| **Customer Reference** | : | BBMP/EE/BTP/WO/135/2020-21 |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 17-05-2021 |
| **Type of Mix** | : | Tack coat |
| **Date of Test** | : | 17-05-2021 |

| Sl.No | Determination | Unit | TEST 1 | TEST 2 |
|---|---|---|---|---|
| 1 | Size of Plate (mxm) | Mt | 0.30 x .30 | 0.30 x .30 |
| 2 | Area of Plate (a) | Sq.mtr | 0.09 | 0.09 |
| 3 | Initial Wt of empty Plate (b) | Kg | 0.78 | 0.748 |
| 4 | Final weight of plate after application of tack Coat ( c) | Kg | 0.803 | 0.771 |
| 5 | Weight of tack Coat (d=c-b) | Kg | 0.023 | 0.023 |
| 6 | Rate of spread of tack coat | Kg/sq.m | 0.256 | 0.256 |
| 7 | Average | Kg/sq.m | 0.256 | |
| 8 | Specified Limit | Kg/sq.m | 0.250 Kg/sq.m | |

* The results obtained are satisfactory as per standard requirements.

**Note:-**

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro
Sig.....
Date.....
BANGALORE

**FOR CIVIL Pro.**
**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**


*End of Report*